

# Donald Bers

## List of Publications by Year in descending order

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463  
papers

44,156  
citations

1301

109  
h-index

2895

190  
g-index

503  
all docs

503  
docs citations

503  
times ranked

21262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac ryanodine receptor N-terminal region biosensors identify novel inhibitors via FRET-based high-throughput screening. <i>Journal of Biological Chemistry</i> , 2022, 298, 101412.	3.4	2
2	AKAP18 $\hat{r}$ Anchors and Regulates CaMKII Activity at Phospholamban-SERCA2 and RYR. <i>Circulation Research</i> , 2022, 130, 27-44.	4.5	27
3	Beat-to-beat dynamic regulation of intracellular pH in cardiomyocytes. <i>IScience</i> , 2022, 25, 103624.	4.1	4
4	Neuron-Restrictive Silencer Factor Limits Myocyte $\text{G}\hat{\pm}$ O Expression and Is Protective in Heart Failure Progression. <i>Circulation Research</i> , 2022, 130, 249-251.	4.5	1
5	Functional remodeling of perinuclear mitochondria alters nucleoplasmic Ca <sup>2+</sup> signaling in heart failure. <i>Biophysical Journal</i> , 2022, 121, 509a-510a.	0.5	0
6	Initiation and maintenance of arrhythmogenic action potential waves near the infarct zone in heart failure. <i>Biophysical Journal</i> , 2022, 121, 89a-90a.	0.5	0
7	Initiation of calcium waves in failing cardiac myocytes is sensitive to posttranslational modifications. <i>Biophysical Journal</i> , 2022, 121, 377a-378a.	0.5	0
8	Empagliflozin Reverses Late Na <sup>+</sup> Current Enhancement and Cardiomyocyte Proarrhythmia in a Translational Murine Model of Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2022, 145, 1029-1031.	1.6	27
9	Synergistic FRET assays for drug discovery targeting RyR2 channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 168, 13-23.	1.9	9
10	Subcellular Propagation of Cardiomyocyte $\hat{r}^2$ -Adrenergic Activation of Calcium Uptake Involves Internal $\hat{r}^2$ -Receptors and AKAP7. <i>Function</i> , 2022, 3, .	2.3	6
11	Fixing a current problem in the cardiac Na channel. , 2022, 1, 408-409.		0
12	Functional remodeling of perinuclear mitochondria alters nucleoplasmic Ca <sup>2+</sup> signaling in heart failure. <i>Cardiovascular Research</i> , 2022, 118, .	3.8	0
13	Intracellular $\hat{r}^2$ -Adrenergic Receptors and Organic Cation Transporter 3 Mediate Phospholamban Phosphorylation to Enhance Cardiac Contractility. <i>Circulation Research</i> , 2021, 128, 246-261.	4.5	38
14	JNK2, a Newly-Identified SERCA2 Enhancer, Augments an Arrhythmic [Ca <sup>2+</sup> ] <sub>SR</sub> Leak-Load Relationship. <i>Circulation Research</i> , 2021, 128, 455-470.	4.5	28
15	Dynamic Regulation of Intracellular PH in the Heart. <i>Biophysical Journal</i> , 2021, 120, 103a.	0.5	0
16	CaMKII and PKA-dependent phosphorylation co-regulate nuclear localization of HDAC4 in adult cardiomyocytes. <i>Basic Research in Cardiology</i> , 2021, 116, 11.	5.9	15
17	Mechanical Load Regulates Excitation-Ca <sup>2+</sup> Signaling-Contraction in Cardiomyocyte. <i>Circulation Research</i> , 2021, 128, 772-774.	4.5	9
18	Inositol Trisphosphate Receptors and Nuclear Calcium in Atrial Fibrillation. <i>Circulation Research</i> , 2021, 128, 619-635.	4.5	20

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19	CaMKII Serine 280 O-GlcNAcylation Links Diabetic Hyperglycemia to Proarrhythmia. <i>Circulation Research</i> , 2021, 129, 98-113.	4.5	38
20	Loss of CASK Accelerates Heart Failure Development. <i>Circulation Research</i> , 2021, 128, 1139-1155.	4.5	11
21	PK1195 Protects From Cell Death Only When Applied During Reperfusion: Succinate-Mediated Mechanism of Action. <i>Frontiers in Physiology</i> , 2021, 12, 628508.	2.8	2
22	Role of Reduced Sarco-Endoplasmic Reticulum Ca <sup>2+</sup> -ATPase Function on Sarcoplasmic Reticulum Ca <sup>2+</sup> Alternans in the Intact Rabbit Heart. <i>Frontiers in Physiology</i> , 2021, 12, 656516.	2.8	15
23	Increasing SERCA function promotes initiation of calcium sparks and breakup of calcium waves. <i>Journal of Physiology</i> , 2021, 599, 3267-3278.	2.9	17
24	Mechanoelectric coupling and arrhythmogenesis in cardiomyocytes contracting under mechanical afterload in a 3D viscoelastic hydrogel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2108484118.	7.1	14
25	Ketone Ester D-β-Hydroxybutyrate (R)-1,3 Butanediol Prevents Decline in Cardiac Function in Type 2 Diabetic Mice. <i>Journal of the American Heart Association</i> , 2021, 10, e020729.	3.7	19
26	Monoamine Oxidases Desensitize Intracellular $\beta_1$ AR Signaling in Heart Failure. <i>Circulation Research</i> , 2021, 129, 965-967.	4.5	13
27	Cardiac Na/Ca Exchange Suppression: A Late-Breaking Knockout Story Showing That There Is No Free Lunch. <i>Journal of the American Heart Association</i> , 2021, 10, e022512.	3.7	0
28	CaMKII $\beta$ post-translational modifications increase affinity for calmodulin inside cardiac ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 161, 53-61.	1.9	4
29	Two-hit mechanism of cardiac arrhythmias in diabetic hyperglycaemia: reduced repolarization reserve, neurohormonal stimulation, and heart failure exacerbate susceptibility. <i>Cardiovascular Research</i> , 2021, 117, 2781-2793.	3.8	26
30	Cardiomyocyte Na <sup>+</sup> and Ca <sup>2+</sup> mishandling drives vicious cycle involving CaMKII, ROS, and ryanodine receptors. <i>Basic Research in Cardiology</i> , 2021, 116, 58.	5.9	33
31	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021, 7, eabg0927.	10.3	22
32	Diabetic microcirculatory disturbances and pathologic erythropoiesis are provoked by deposition of amyloid-forming amylin in red blood cells and capillaries. <i>Kidney International</i> , 2020, 97, 143-155.	5.2	31
33	Mechano-electric and mechano-chemo-transduction in cardiomyocytes. <i>Journal of Physiology</i> , 2020, 598, 1285-1305.	2.9	30
34	Hyperglycemia regulates cardiac K <sup>+</sup> channels via O-GlcNAc-CaMKII and NOX2-ROS-PKC pathways. <i>Basic Research in Cardiology</i> , 2020, 115, 71.	5.9	43
35	Metabolic Maturation Media Improve Physiological Function of Human iPSC-Derived Cardiomyocytes. <i>Cell Reports</i> , 2020, 32, 107925.	6.4	198
36	Beta-Adrenergic Signaling in Isolated Cardiomyocytes Propagates Spatially Over Time. <i>Biophysical Journal</i> , 2020, 118, 328a-329a.	0.5	0

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37	CaMKII $\beta$ Drives Early Adaptive Ca <sup>2+</sup> Change and Late Eccentric Cardiac Hypertrophy. <i>Circulation Research</i> , 2020, 127, 1159-1178.	4.5	31
38	MCL1 Induction Protects the Heart From Postischemic Remodeling. <i>Circulation Research</i> , 2020, 127, 379-390.	4.5	36
39	1 $\alpha$ ,25(OH) <sub>2</sub> D <sub>3</sub> promotes activity of the L-type Ca <sup>2+</sup> channel Ca <sub>v</sub> 1.2. <i>EMBO Journal</i> , 2020, 39, e102622.	7.8	20
40	Balance Between Rapid Delayed Rectifier K <sup>+</sup> Current and Late Na <sup>+</sup> Current on Ventricular Repolarization. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008130.	4.8	16
41	Hyperglycemia Acutely Increases Cytosolic Reactive Oxygen Species via <i>O</i> <sup>2</sup> -linked GlcNAcylation and CaMKII Activation in Mouse Ventricular Myocytes. <i>Circulation Research</i> , 2020, 126, e80-e96.	4.5	82
42	RyR1-targeted drug discovery pipeline integrating FRET-based high-throughput screening and human myofiber dynamic Ca <sup>2+</sup> assays. <i>Scientific Reports</i> , 2020, 10, 1791.	3.3	30
43	Mechanics and energetics in cardiac arrhythmias and heart failure. <i>Journal of Physiology</i> , 2020, 598, 1275-1277.	2.9	1
44	Mitochondrial Translocator Protein (TSPO) Prevents Heart Failure by Increasing Cardiac Utilization of Fatty Acids. <i>Biophysical Journal</i> , 2020, 118, 445a-446a.	0.5	0
45	A 20/20 view of ANT function in mitochondrial biology and necrotic cell death. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 144, A3-A13.	1.9	47
46	Disease-associated mutations in Niemann-Pick type C1 alter ER calcium signaling and neuronal plasticity. <i>Journal of Cell Biology</i> , 2019, 218, 4141-4156.	5.2	32
47	Intrafibrillar and perinuclear mitochondrial heterogeneity in adult cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 136, 72-84.	1.9	32
48	Cardiotoxicity of environmental contaminant tributyltin involves myocyte oxidative stress and abnormal Ca <sup>2+</sup> handling. <i>Environmental Pollution</i> , 2019, 247, 371-382.	7.5	12
49	Size Matters: Ryanodine Receptor Cluster Size Heterogeneity Potentiates Calcium Waves. <i>Biophysical Journal</i> , 2019, 116, 530-539.	0.5	31
50	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. <i>European Heart Journal</i> , 2019, 40, 3685-3695.	2.2	100
51	Different paths, same destination: divergent action potential responses produce conserved cardiac fight-or-flight response in mouse and rabbit hearts. <i>Journal of Physiology</i> , 2019, 597, 3867-3883.	2.9	22
52	Whole-Cell cAMP and PKA Activity are Epiphenomena, Nanodomain Signaling Matters. <i>Physiology</i> , 2019, 34, 240-249.	3.1	40
53	Mitochondrial Quality Control in Aging and Heart Failure: Influence of Ketone Bodies and Mitofusin-Stabilizing Peptides. <i>Frontiers in Physiology</i> , 2019, 10, 382.	2.8	68
54	Quantitative In Silico Analysis of the Arrhythmogenic CaMKII-Sodium-Calcium-CaMKII Feedback in the Failing Rabbit Ventricular Myocyte. <i>Biophysical Journal</i> , 2019, 116, 94a-95a.	0.5	0

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55	Enhanced Depolarization Drive in Failing Rabbit Ventricular Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007061.	4.8	29
56	FRET-Based Trilateration Resolves Distinct Structural States and Transitions of Calmodulin Bound to RyR. <i>Biophysical Journal</i> , 2019, 116, 43a.	0.5	0
57	Ketone Bodies and their Polymers in Heart Failure and Type 2 Diabetes: Lessons Learned from the Ketone Ester Diet. <i>Biophysical Journal</i> , 2019, 116, 2a-3a.	0.5	1
58	Diabetic Hyperglycemia Regulates Potassium Channels and Arrhythmias in the Heart via Autonomous CaMKII Activation by O-Linked Glycosylation. <i>Biophysical Journal</i> , 2019, 116, 98a.	0.5	5
59	Dual role of inorganic polyphosphate in cardiac myocytes: The importance of polyP chain length for energy metabolism and mPTP activation. <i>Archives of Biochemistry and Biophysics</i> , 2019, 662, 177-189.	3.0	27
60	CaMKII signaling in heart diseases: Emerging role in diabetic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 246-259.	1.9	92
61	Endurance training restores spatially distinct cardiac mitochondrial function and myocardial contractility in ovariectomized rats. <i>Free Radical Biology and Medicine</i> , 2019, 130, 174-188.	2.9	6
62	Altered Repolarization Reserve in Failing Rabbit Ventricular Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005852.	4.8	30
63	Stress Signaling JNK2 Crosstalk With CaMKII Underlies Enhanced Atrial Arrhythmogenesis. <i>Circulation Research</i> , 2018, 122, 821-835.	4.5	64
64	Complex electrophysiological remodeling in postinfarction ischemic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3036-E3044.	7.1	72
65	Amylin and diabetic cardiomyopathy – amylin-induced sarcolemmal Ca <sup>2+</sup> leak is independent of diabetic remodeling of myocardium. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 1923-1930.	3.8	11
66	Excitation–Contraction Coupling. , 2018, , 151-159.		5
67	Î <sup>2</sup> -adrenergic regulation of late Na <sup>+</sup> current during cardiac action potential is mediated by both PKA and CaMKII. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 123, 168-179.	1.9	55
68	Tributyltin Induces Negative Inotropic Effect, Reduces Cardiac SR Calcium Content and Increases Calcium Sparks Frequency in Cardiomyocytes. <i>Biophysical Journal</i> , 2018, 114, 501a.	0.5	0
69	Cardiac-specific Conditional Knockout of the 18-kDa Mitochondrial Translocator Protein Protects from Pressure Overload Induced Heart Failure. <i>Scientific Reports</i> , 2018, 8, 16213.	3.3	36
70	Nuclear translocation of calmodulin in pathological cardiac hypertrophy originates from ryanodine receptor bound calmodulin. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 125, 87-97.	1.9	15
71	Cardiac CaMKII activation promotes rapid translocation to its extra-dyadic targets. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 125, 18-28.	1.9	22
72	GRAM domain proteins specialize functionally distinct ER-PM contact sites in human cells. <i>ELife</i> , 2018, 7, .	6.0	96

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73	Size Matters: Ryanodine Receptor Cluster Size Affects Arrhythmogenic Sarcoplasmic Reticulum Calcium Release. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	76
74	Role of Epac2 in High Glucose-Induced SR Ca <sup>2+</sup> Leak and Arrhythmia. <i>Biophysical Journal</i> , 2018, 114, 618a.	0.5	0
75	The mitochondrial calcium uniporter underlies metabolic fuel preference in skeletal muscle. <i>JCI Insight</i> , 2018, 3, .	5.0	60
76	CALM ing Down Arrhythmogenic Calmodulinopathies via a Precision Medicine Approach. <i>Circulation Research</i> , 2017, 120, 3-4.	4.5	4
77	Antiarrhythmic effects of interleukin 1 inhibition after myocardial infarction. <i>Heart Rhythm</i> , 2017, 14, 727-736.	0.7	61
78	FRET biosensor uncovers cAMP nano-domains at $\beta_2$ -adrenergic targets that dictate precise tuning of cardiac contractility. <i>Nature Communications</i> , 2017, 8, 15031.	12.8	166
79	$\beta_2$ -Adrenergic induced SR Ca <sup>2+</sup> leak is mediated by an Epac-NOS pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 108, 8-16.	1.9	53
80	MarkoLAB: A simulator to study ionic channel's stochastic behavior. <i>Computers in Biology and Medicine</i> , 2017, 87, 258-270.	7.0	4
81	Subcellular localization of Na/K-ATPase isoforms in ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 108, 158-169.	1.9	12
82	K <sup>+</sup> channels and cardiac electrophysiology. <i>Journal of Physiology</i> , 2017, 595, 2205-2207.	2.9	1
83	Quantitative analysis of the Ca <sup>2+</sup> -dependent regulation of delayed rectifier K <sup>+</sup> current <i>i</i> <sub>K</sub> in rabbit ventricular myocytes. <i>Journal of Physiology</i> , 2017, 595, 2253-2268.	2.9	37
84	Dynamical effects of calcium-sensitive potassium currents on voltage and calcium alternans. <i>Journal of Physiology</i> , 2017, 595, 2285-2297.	2.9	27
85	Dynamics of sodium current mediated early afterdepolarizations. <i>Heliyon</i> , 2017, 3, e00388.	3.2	23
86	Calcium-Dependent Arrhythmogenic Foci Created by Weakly Coupled Myocytes in the Failing Heart. <i>Circulation Research</i> , 2017, 121, 1379-1391.	4.5	15
87	Potassium channels in the heart: structure, function and regulation. <i>Journal of Physiology</i> , 2017, 595, 2209-2228.	2.9	79
88	Stabilizing ryanodine receptor gating quiets arrhythmogenic events in human heart failure and atrial fibrillation. <i>Heart Rhythm</i> , 2017, 14, 420-421.	0.7	12
89	High-Throughput Screens to Discover Small-Molecule Modulators of Ryanodine Receptor Calcium Release Channels. <i>SLAS Discovery</i> , 2017, 22, 176-186.	2.7	51
90	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017, 595, 2229-2252.	2.9	76

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91	Dual optical mapping of the innervated Langendorff-perfused heart reveals novel insights into acute electrophysiological responses to sympathetic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 112, 151-152.	1.9	0
92	Reduced Arrhythmia Inducibility With Calcium/Calmodulin-dependent Protein Kinase II Inhibition in Heart Failure Rabbits. <i>Journal of Cardiovascular Pharmacology</i> , 2016, 67, 260-265.	1.9	15
93	S100A1 Protein Does Not Compete with Calmodulin for Ryanodine Receptor Binding but Structurally Alters the Ryanodine Receptor-Calmodulin Complex. <i>Journal of Biological Chemistry</i> , 2016, 291, 15896-15907.	3.4	27
94	L30A Mutation of Phospholemman Mimics Effects of Cardiac Glycosides in Isolated Cardiomyocytes. <i>Biochemistry</i> , 2016, 55, 6196-6204.	2.5	5
95	Genetically Encoded Biosensors Reveal PKA Hyperphosphorylation on the Myofilaments in Rabbit Heart Failure. <i>Circulation Research</i> , 2016, 119, 931-943.	4.5	43
96	CaMKII-dependent phosphorylation of RyR2 promotes targetable pathological RyR2 conformational shift. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 98, 62-72.	1.9	80
97	Patient-Specific and Genome-Edited Induced Pluripotent Stem Cell-Derived Cardiomyocytes Elucidate Single-Cell Phenotype of Brugada Syndrome. <i>Journal of the American College of Cardiology</i> , 2016, 68, 2086-2096.	2.8	185
98	Stretch-Activated Current Can Promote or Suppress Cardiac Alternans Depending on Voltage-Calcium Interaction. <i>Biophysical Journal</i> , 2016, 110, 2671-2677.	0.5	5
99	Mechano-Chemo-Transduction in Rabbit Cardiomyocytes Mediated by $\text{Ca}^{2+}$ Signaling. <i>Biophysical Journal</i> , 2016, 110, 600a.	0.5	0
100	Sarcoplasmic Reticulum Structure and Functional Properties that Promote Long-Lasting Calcium Sparks. <i>Biophysical Journal</i> , 2016, 110, 382-390.	0.5	18
101	Atrial-selective targeting of arrhythmogenic phase-3 early afterdepolarizations in human myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 96, 63-71.	1.9	46
102	Individual Cardiac Mitochondria Undergo Rare Transient Permeability Transition Pore Openings. <i>Circulation Research</i> , 2016, 118, 834-841.	4.5	88
103	Chasing cardiac physiology and pathology down the CaMKII cascade. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1177-H1191.	3.2	78
104	Role of Sodium and Calcium Dysregulation in Tachyarrhythmias in Sudden Cardiac Death. <i>Circulation Research</i> , 2015, 116, 1956-1970.	4.5	96
105	Targets for therapy in sarcomeric cardiomyopathies. <i>Cardiovascular Research</i> , 2015, 105, 457-470.	3.8	122
106	Constitutive BDNF/TrkB signaling is required for normal cardiac contraction and relaxation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1880-1885.	7.1	96
107	CaMKII $\beta$ mediates $\text{I}^2$ -adrenergic effects on RyR2 phosphorylation and SR $\text{Ca}^{2+}$ leak and the pathophysiological response to chronic $\text{I}^2$ -adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 85, 282-291.	1.9	69
108	$\text{I}^2$ -adrenergic effects on cardiac myofilaments and contraction in an integrated rabbit ventricular myocyte model. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 81, 162-175.	1.9	52

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109	The Mitochondrial Calcium Uniporter Selectively Matches Metabolic Output to Acute Contractile Stress in the Heart. <i>Cell Reports</i> , 2015, 12, 15-22.	6.4	284
110	Oxidation of ryanodine receptor (RyR) and calmodulin enhance Ca release and pathologically alter, RyR structure and calmodulin affinity. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 85, 240-248.	1.9	91
111	Epigenetic Regulation of Phosphodiesterases 2A and 3A Underlies Compromised $\beta^2$ -Adrenergic Signaling in an iPSC Model of Dilated Cardiomyopathy. <i>Cell Stem Cell</i> , 2015, 17, 89-100.	11.1	170
112	Cardiac myocyte alternans in intact heart: Influence of cell-cell coupling and $\beta^2$ -adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 1-9.	1.9	18
113	Na <sup>+</sup> /Ca <sup>2+</sup> exchange and Na <sup>+</sup> /K <sup>+</sup> -ATPase in the heart. <i>Journal of Physiology</i> , 2015, 593, 1361-1382.	2.9	160
114	Nuclear Calcium in Cardiac Myocytes. <i>Journal of Cardiovascular Pharmacology</i> , 2015, 65, 211-217.	1.9	33
115	Na <sup>+</sup> channel function, regulation, structure, trafficking and sequestration. <i>Journal of Physiology</i> , 2015, 593, 1347-1360.	2.9	59
116	Novel Epac fluorescent ligand reveals distinct Epac1 vs. Epac2 distribution and function in cardiomyocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3991-3996.	7.1	57
117	CaMKII Phosphorylation of Na <sup>+</sup> V <sub>1.5</sub> : Novel in Vitro Sites Identified by Mass Spectrometry and Reduced S516 Phosphorylation in Human Heart Failure. <i>Journal of Proteome Research</i> , 2015, 14, 2298-2311.	3.7	36
118	Nuclear Calcium/Calmodulin-dependent Protein Kinase II Signaling Enhances Cardiac Progenitor Cell Survival and Cardiac Lineage Commitment. <i>Journal of Biological Chemistry</i> , 2015, 290, 25411-25426.	3.4	17
119	Decreased inward rectifying K <sup>+</sup> current and increased ryanodine receptor sensitivity synergistically contribute to sustained focal arrhythmia in the intact rabbit heart. <i>Journal of Physiology</i> , 2015, 593, 1479-1493.	2.9	33
120	Sodium and calcium regulation in cardiac myocytes: from molecules to heart failure and arrhythmia. <i>Journal of Physiology</i> , 2015, 593, 1327-1329.	2.9	10
121	Deranged sodium to sudden death. <i>Journal of Physiology</i> , 2015, 593, 1331-1345.	2.9	46
122	CaMKII-Dependent Phosphorylation of RyR2 Causes Domain Unzipping and Reduced Calmodulin Binding, But Dantrolene Reverses These Effects. <i>Biophysical Journal</i> , 2015, 108, 269a-270a.	0.5	0
123	S-Nitrosylation Induces Both Autonomous Activation and Inhibition of Calcium/Calmodulin-dependent Protein Kinase II $\beta$ . <i>Journal of Biological Chemistry</i> , 2015, 290, 25646-25656.	3.4	81
124	Slow [Na <sup>+</sup> ] <sub>i</sub> Changes and Positive Feedback Between Membrane Potential and [Ca <sup>2+</sup> ] <sub>i</sub> Underlie Intermittent Early Afterdepolarizations and Arrhythmias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1472-1480.	4.8	31
125	Adrenergic Fight-or-Flight. <i>Circulation Research</i> , 2015, 117, 747-749.	4.5	2
126	Control of histone H3 phosphorylation by CaMKII $\beta$ in response to haemodynamic cardiac stress. <i>Journal of Pathology</i> , 2015, 235, 606-618.	4.5	35



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127	Atherosclerosis exacerbates arrhythmia following myocardial infarction: Role of myocardial inflammation. <i>Heart Rhythm</i> , 2015, 12, 169-178.	0.7	67
128	Measuring Intranuclear and Nuclear Envelope [Ca <sup>2+</sup> ] vs. Cytosolic [Ca <sup>2+</sup> ]. <i>Methods in Molecular Biology</i> , 2015, 1234, 135-147.	0.9	5
129	Excitation-Contraction Coupling. , 2014, , 161-169.		1
130	Models of the Ventricular Action Potential in Health and Disease. , 2014, , 319-330.		3
131	Mechanochemotransduction During Cardiomyocyte Contraction Is Mediated by Localized Nitric Oxide Signaling. <i>Science Signaling</i> , 2014, 7, ra27.	3.6	128
132	AKAP150 Contributes to Enhanced Vascular Tone by Facilitating Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channel Remodeling in Hyperglycemia and Diabetes Mellitus. <i>Circulation Research</i> , 2014, 114, 607-615.	4.5	86
133	Overexpression of the Na <sup>+</sup> /K <sup>+</sup> ATPase $\hat{1}\pm 2$ But Not $\hat{1}\pm 1$ Isoform Attenuates Pathological Cardiac Hypertrophy and Remodeling. <i>Circulation Research</i> , 2014, 114, 249-256.	4.5	61
134	CaMKII comes of age in cardiac health and disease. <i>Frontiers in Pharmacology</i> , 2014, 5, 154.	3.5	7
135	Ca <sup>2+</sup> current facilitation is CaMKII-dependent and has arrhythmogenic consequences. <i>Frontiers in Pharmacology</i> , 2014, 5, 144.	3.5	49
136	Divergent Regulation of Ryanodine Receptor 2 Calcium Release Channels by Arrhythmogenic Human Calmodulin Missense Mutants. <i>Circulation Research</i> , 2014, 114, 1114-1124.	4.5	126
137	Nonequilibrium Reactivation of Na <sup>+</sup> Current Drives Early Afterdepolarizations in Mouse Ventricle. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014, 7, 1205-1213.	4.8	42
138	Intracellular signalling mechanism responsible for modulation of sarcolemmal ATP $\hat{a}$ sensitive potassium channels by nitric oxide in ventricular cardiomyocytes. <i>Journal of Physiology</i> , 2014, 592, 971-990.	2.9	48
139	Cardiac Myocyte Z-Line Calmodulin Is Mainly RyR2-Bound, and Reduction Is Arrhythmogenic and Occurs in Heart Failure. <i>Circulation Research</i> , 2014, 114, 295-306.	4.5	69
140	Cardiac Sarcoplasmic Reticulum Calcium Leak: Basis and Roles in Cardiac Dysfunction. <i>Annual Review of Physiology</i> , 2014, 76, 107-127.	13.1	266
141	FRET-Based Trilateration of Probes Bound within Functional Ryanodine Receptors. <i>Biophysical Journal</i> , 2014, 107, 2037-2048.	0.5	16
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